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FIELD MANUAL

MAINTENANCE AND REPAIR PARTS CONSUMPTION PLANNING GUIDE FOR CONTINGENCY OPERATIONS

MACHINE GUN, 7.62mm, LIGHT, FLEXIBLE, M60

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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HEADQUARTERS
DEPARTMENT OF THE ARMY
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MAINTENANCE AND REPAIR PARTS CONSUMPTION PLANNING GUIDE FOR CONTINGENCY OPERATIONS

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PAGE

CHAPTER 1 INTRODUCTION 1-1
2 METHODOLOGY OF ANALYSIS 2-1
TABLE 2-1 Sample Computation of Consumption Quantities 2-3
CHAPTER 3 USAGE PROFILE 3-1
4 CONTINGENCY MAINTENANCE ALLOCATION CHART 4-1
TABLE 4-1 CMAC 4-2
CHAPTER 5 MISSION-ESSENTIAL MAINTENANCE OPERATIONS 5-1
TABLE 5-1 MEMO, Crew/Operator Level 5-2
5-2 MEMO, Organizational Level 5-4
5-3 MEMO, Direct Support Level 5-7
CHAPTER 6 MISSION-ESSENTIAL REPAIR-PARTS LIST 6-1
TABLE 6-1 MERPL, Organizational Level 6-2
6-2 MERPL, Direct Support Level 6-5

FOREWORD

It is extremely important that the capability to reasonably predict repair-part requirements for wartime and contingency operations be established. Therefore, this manual provides a management tool immediately available for use in the field, in the Army School System, and by Army National Maintenance Points and Inventory Control Points. It provides reference data to commanders, logistics planners and item managers to assist in forecasting mission-essential maintenance and associated repair-parts requirements for contingency operations and war-reserve planning.

The data provided herein does not constitute authority for peacetime requisitioning or stockage of items in the field not authorized by peacetime procedures prescribed by Army regulations, policy and doctrine, as outlined in Chapter 1.

CHAPTER 1

INTRODUCTION

1-1. PURPOSE.

a. The purpose of this manual is to inform commanders, logistics planners, and item managers of the supply and maintenance requirements that may be generated by an end item during a contingency operation and for war-reserve planning.

b. Users of this manual are encouraged to submit recommended changes or comments to improve the manual. Comments should be keyed to the page, paragraph, and line of the text in which the change is recommended. Reasons should be provided for each comment to insure understanding and complete evaluation. Comments should be prepared using DA Form 2028 (Recommended Changes to Publications) and forwarded direct to the Commander, US Army Logistics Center, ATTN: ATCL-MR, Ft Lee, VA 23801.

1-2. SCOPE.

a. This manual provides information relative to Mission-Essential Maintenance Operations (MEMO), maintenance times, mission-essential repair parts, and repair-part quantities for selected combat significant equipment. The manual is divided into 6 Chapters. The scope of each chapter is described below.

b. Chapter 1. Provides general information concerning the manual and provides instruction on its purpose and use.

c. Chapter 2. Outlines the procedure and methodology by which the data presented in Chapters 3, 4, 5, and 6 are developed.

d. Chapter 3. Contains a usage profile (para 1-5k) of the end item in a contingency operation.

e. Chapter 4. A Contingency Maintenance Allocation Chart (CMAC) for the end item indicating which maintenance operations are essential, deferrable, or non-essential.

f. Chapter 5. A listing of the Mission-Essential Maintenance Operations (MEMO) for the end item and all the data pertinent thereto.

g. Chapter 6. A consolidated listing of the repair parts and quantities thereof that are expected to be consumed in support of the MEMO for the end item.

1-3. APPLICATION.

This manual is designed for use by commanders, logistics planners, and item managers, as a basic reference to plan for contingency operations. It may also be used by intermediate and wholesale managers and logistics planners to augment existing procedures and data used to determine the adequacy, range, and depth of contingency reserve requirements.

1-4. LIMITATIONS.

a. Data contained in this manual is not to be construed as Department of the Army policy or doctrine. Where conflicts arise, existing DA directives will apply.

b. Data in this manual does not replace technical data currently in effect but is intended to supplement such data to assist in forecasting maintenance and supply requirements.

c. Data was developed in the context of the established usage profile displayed in Chapter 3 of this manual. It may be modified to correspond to the user's specific situation, anticipated mission, or force structure.

d. Consumption quantities indicated do not represent recommended ASL or PLL stockage levels for a contingency operation. The quantity represents 120 days of consumption of these repair parts in a wartime situation.

e. Consumption quantities are raw usage figures and do not incorporate OST, RO, or Safety Level adjustments.

f. The maintenance of a removed repairable module that is replaced by a like module, as a means of mission-essential maintenance operations, will not be included in WARPAC analysis. It is considered to be a secondary maintenance action.

1-5. EXPLANATION OF TERMS.

a. Contingency Maintenance Allocation Chart (CMAC): A maintenance allocation chart that identifies maintenance functions as essential, nonessential, or deferrable to guide repair of equipment during contingency operations.

b. Consumption Quantity: A quantity which is the anticipated consumption rate of a specific repair part based upon a specific equipment density and usage profile.

c. Deferrable Maintenance Operation: A maintenance operation whose deferral for approximately 120 days will not cause degradation of the end item to the extent that it is unable to perform its intended mission. Additionally, such deferral will not cause appreciable damage to other components. However, it should be performed as soon as operational considerations and parts availability permit.

d. Frequency of Occurrence: The number of times the listed mission-essential maintenance operation is expected to be performed on the density of equipment within the conditions stated in the usage profile.

e. Frequency per 100 Operations: The estimated utilization of a specific repair part given the mission-essential maintenance operation is performed 100 times. Since the operation is performed 100 times, this number is expressed as a percentage of utilization.

f. Maintenance Operation: A maintenance task that is identified as a separate line number in the CMAC (i.e., service, repair, replace, etc.).

g. Mission-Essential Maintenance Operation (MEMO): A maintenance operation that must be performed to insure that the end item continues to be capable of performing its intended mission. Preventive maintenance functions and services are also included as MEMO.

h. Mission-Essential Repair-Parts List (MERPL): A listing of repair parts which are required to perform MEMO. This list is not to be used for requisitioning or retail stockage purposes.

i. Nonessential Maintenance Operations: A maintenance operation which may be deferred indefinitely within the confines of the conditions set forth in the usage profile without appreciably degrading the end item's mission performance.

j. Quantity per Action: The quantity of a specific repair part expected to be used each time the MEMO is performed.

k. Usage Profile: A situational outline that specifies environmental and performance characteristics of an end item in a given wartime situation.

1-6. SUGGESTIONS FOR USE.

a. Special training programs may be established to ensure that maintenance personnel are thoroughly capable of performing the mission-essential maintenance operations specified in this manual that will be required to be performed during a contingency operation. Hands-on training of this type could be performed under adverse circumstances (e.g. reduced visibility, time limits, lack of specified TMDE), to make the situation more realistic and compatible to actual combat situations.

b. A review of repair parts currently annotated as combat essential may be made and compared to those shown in this manual. Discrepancies should be noted, a decision made as to their actual essentiality, and appropriate steps taken to correct the list of combat-essential repair parts as necessary.

c. Repair parts annotated as combat-essential may be conspicuously marked to identify them as having first priority for movement. If practical, combat-essential stocks could be segregated and stored separately (e.g. stored in MILVANS). In a similar manner, items not marked as combat essential may be indicated as potential excess during contingency operations.

d. Intensive management practices may be initiated to ensure that combat-essential repair parts are in a good stockage position and that replenishment action is initiated in a timely manner when reorder points are reached.

e. Data contained in this manual may be used to assure that, when funds are limited, combat-essential repair parts have top priority.

f. To attain realism, field training exercises may be conducted with combat-essential repair parts; however, specific parts will be requisitioned only as authorized by current Army supply policies and procedures.

g. Requirements for equipment necessary to meet combat mission objectives (e.g. TMDE) may be identified and stocked at wholesale level for retail contingency ASL and PLL.

h. The US Army Materiel Development and Readiness Command (DARCOM) item managers and the US Army Maintenance Management Center (MMC) may utilize the guides to supplement existing data used to compute contingency operation stockage quantities. Field Activities will continue to obtain ASL/PLL support from MMC in accordance with Chapter 3, Section IV of AR 710-2.

CHAPTER 2

METHODOLOGY OF ANALYSIS

2-1. GENERAL.

This chapter provides an outline of the methodology used to develop the data presented in this manual. This methodology may also be applied by the user in analyzing other end items.

2-2. PREPARATION.

a. Select an end item for evaluation.

b. Obtain all technical manuals and available data relative to the selected end item.

c. Establish a dedicated evaluation group composed of experienced maintenance and supply personnel so that a cross representation of the skills and technical knowledge required to properly analyze the end item for all aspects of the equipment at all maintenance levels is achieved.

d. Develop a usage profile for the end item. (Chapter 3 provides basic requirements.) Usage profiles may be based on past, current, or anticipated performance data and serve to establish operating parameters within which maintenance and repair-part data is to be determined.

2-3. ANALYSIS.

a. Critically review the current Maintenance Allocation Chart (MAC) relative to:

(1) Essentiality of each maintenance task in terms of mission performance criticality within the context of the established usage profile. Those tasks and operations (i.e., adjust, test, replace, repair) vital to the mission capability of the end item (failure to perform them would significantly impair mission accomplishment) should be considered essential. Those maintenance tasks and operations, which if not performed, would not significantly affect mission performance, may be considered as candidates for deferred or nonessential maintenance.

(2) The effect of environment on essentiality of a maintenance task or operation as well as the range and depth of repair-parts requirements.

b. Develop a 120 day Mission-Essential Repair-Parts List (MERPL) in support of previously established mission-essential maintenance task or operations (MEMO). Repair parts selected for the MERPL should not include:

(1) Parts readily available through shop or service stocks such as common hardware.

(2) Reusable parts.

(3) Parts easily fabricated (e.g., stock gasket materiel in lieu of specific gasket line items).

(4) Parts contained in TOE maintenance repair kits, shop sets, and tool kits.

c. Determine quantity of each MERPL item that should be recommended for ASL and PLL stockage to support the usage profile.

(1) At this point of development, essential maintenance tasks and operations and the repair parts to support them have been identified. Three significant factors influence MERPL quantities.

(a) How often will the specific maintenance task or operation be performed within the context of the usage profile?

(b) How many, of a specific part required, will normally be used in the task performance?

(c) Are all repair parts identified for a specific task required each time the task is performed? Assume the task is to be performed 100 times. If all parts are required each time the task is performed, each part has a percentage of utilization of 100. While some parts may be considered to have a frequency of utilization of 100, others may not, e.g., 75%, 30%, or 10%. These parts may still be considered essential and worthy of stockage.

(2) These factors are addressed in Chapter 5 as: Frequency of Occurrence, Quantity per Action and Frequency per 100 Operations. The product of these factors represent MERPL quantities. (Table 2-l)

(3) MERPL quantities are provided in Chapter 6 for each spare (repair) part by level of maintenance in NIIN sequence. Multiple listing of the same spare (repair) part occurs when the same spare (repair) part is used in different maintenance tasks.

d. Request an ASL or PLL from the US Army Materiel Development and Readiness Command (DARCOM) in accordance with Chapter 2, Section V, AR 710-2, and compare their recommended peacetime ASL or PLL with the MERPL listing established to support your usage profile.

(1) Reduce the 120 day MERPL quantities to appropriate ASL or PLL quantities.

(2) Identify variances between line items in the MERPL-based ASL or PLL quantities and in the DARCOM recommended listing.

(3) Forward the variance listing with a copy of your usage profile, revised CMAC, MEMO, MERPL, and appropriate comments to DARCOM and request that:

(a) Variances be reviewed and resolved where appropriate.

(b) War-reserve and contingency-package programing be updated to incorporate resolved variances as appropriate.

(c) A revised DARCOM recommended ASL or PLL be developed when significant variances are noted i.e., a greater than 30% mismatch between the two listings.

TABLE 2-1 SAMPLE COMPUTATION OF CONSUMPTION QUANTITIES

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQUENCY OF OCCURRENCE			MANHOUR REQUIREMENTS			QTY PER ACTION	FREQ PER 100 OPERATION(%)
				MIN	PROB	MAX	MIN	PROB	MAX		
(1) 1301-4-2	Replace	1234-00-56-7890	GADGET	5	10	15	00.4	00.5	00.7	001	100
(2) 1301-5-1	Repair		COILER	0	2	5	04.8	06.0	09.4		
		1234-00-56-7809	TERMINAL							002	050
(3) 1301-6-1	Replace	1234-00-56-7089	LINE	0	1	3	00.1	01.5	02.5	001	010

Sample Computation to determine consumption quantity for listing in MERPL in Chapter 6, utilizing the formula of Probable Frequency of Occurrence x Quantity per Action x Frequency per 100 Operations.

(1) for NSN 1234-00-56-7890 the computed consumption quantity is 10 x 1 x 1.00 = 10 ea

(2) for NSN 1234-00-56-7809 the computed consumption quantity is 2 x 2 x 0.50 = 2 ea

(3) for NSN 1234-00-56-7089 the computed consumption quantity is 1 x 1 x 0.10 = 1 ea

(.3 or above stock 1, below .3 stock 0)

CHAPTER 3

USAGE PROFILE

3-1. GENERAL.

a. The usage profile describes the operational, environmental, and doctrinal factors utilized as a basis for data developed and provided in Chapters 4, 5, and 6.

b. Generic Nomenclature of Item: Machine Gun, 7.62mm, Light, Flexible, M60

c. NSN: 1005-00-605-7710

d. LIN: L92386

3-2. PROFILE CONSIDERATIONS.

a. The usage profile is developed based on considerations relative to the US Army Training and Doctrine Command, Europe I scenario. Specifically, sequences 2 and 2A, and subject to judgemental analysis of the ammunition expenditure rates in each tactical situation.

b. This usage profile is applicable to only the 7.62mm, M60, Machine Gun and the conditions stated in paragraph 3-3.

c. The primary operational mode consideration is offensive and defensive situations.

3-3. DATA.

a. End Item Quantity - 100 ea 7.62mm, M60, Machine Guns

b. Operation Duration - 120 days

c. Operating Conditions:

(1) Operations based on 24-hour/day requirement.

(2) Night operations are included.

(3) Climatic Conditions - collectively considered climatic conditions applicable to the European theater of operations.

d. End Item Usage.

(1) Travel - NA

(2) Average MPH - NA

(3) Rounds fired - 420,000

e. Terrain Analysis: Steep to rolling hills, mixed wooded and open terrain.

CHAPTER 4

CONTINGENCY MAINTENANCE ALLOCATION CHART

4-1. GENERAL.

a. This chapter contains a revised maintenance allocation chart to identify those maintenance operations that are essential, deferrable or nonessential to keeping the end item combat ready in a contingency operation.

b. Maintenance functions which are shown as being mission-essential are listed in Chapter 5 in the MEMO.

4-2. EXPLANATION.

a. Abbreviations or symbols used in the chapter are:

M - Mission-Essential Maintenance Operation.

D - Deferrable Maintenance Operation.

N - Nonessential Maintenance Operation.

%% - Maintenance function which may be performed at a lower level of maintenance if authorization is granted.

* - Identifies a recommended reallocation of a maintenance function.

b. Numerical designations found within the 'category of maintenance' designates the probable amount of time required to perform the operation. They are provided for planning and management purposes.

TABLE 4-1 CONTINGENCY MAINTENANCE ALLOCATION CHART
FOR
MACHINE GUN, 7.62 MILLIMETER: LIGHT, FLEXIBLE, M60

GROUP NUMBER	COMPONENT/ ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY				REMARKS
			C	O	F	H	
	MACHINE GUN - M60						
1	Barrel Assemby with Bipod Assembly						
		1 Inspect	M 0.1				
		2 Service	M 0.2				
		3 Install	M 0.1				
		4 Replace	M 0.1				
		5 Repair		M 0.8			
		6 Overhaul					Depot Lvl
1a	Barrel Assembly						
		1 Inspect			M 0.1		
		2 Service	M 0.1				
		3 Install			M 1.0		
		4 Replace			M 1.0		
1b	Bipod Assembly						
		1 Inspect	*		M 0.1		
		2 Service	*		M 0.1		
		3 Install			M 1.0		
		4 Replace			M 1.0		
		5 Repair			M 0.3		
		6 Overhaul					Depot Lvl
2	Trigger Mechanism, Grip Group						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Repair		M 0.3			
		5 Overhaul					Depot Lvl
3	Gun Shoulder Stock						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Replace	*		M 0.1		
		5 Repair			M 0.2		
		6 Overhaul					Depot Lvl

TABLE 4-1 (CONT) CONTINGENCY MAINTENANCE ALLOCATION CHART FOR MACHINE GUN, 7.62 MILLIMETER: LIGHT, FLEXIBLE, M60

GROUP NUMBER	COMPONENT/ ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY				REMARKS
			C	O	F	H	
4	Forearm Assembly						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Replace	*		M 0.1		
		5 Repair			M 0.2		
		6 Overhaul					Depot Lvl
5	Cover Assembly & Cartridge Assembly Group (old manufacture)						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Repair		M 0.3			
		5 Overhaul					Depot Lvl
6	Cover Assembly & Tray and Hanger Assembly Group (new manufacture)						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Repair		M 0.3			
		5 Overhaul					Depot Lvl
7	Buffer Assembly & Operating Rod Assembly Group						
		1 Inspect	M 0.1				
		2 Service	M 0.1				
		3 Install	M 0.1				
		4 Repair		M 0.2			
		5 Replace		M 0.1			

TABLE 4-1 (CONT) CONTINGENCY MAINTENANCE ALLOCATION CHART
FOR
MACHINE GUN, 7.62 MILLIMETER: LIGHT, FLEXIBLE, M60

GROUP NUMBER	COMPONENT/ ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY				REMARKS
			C	O	F	H	
8	Breech Bolt Assembly						
	1	Inspect	M 0.1				
	2	Service	M 0.1				
	3	Install	M 0.1				
	4	Replace	*	M 0.1			
	5	Repair		M 0.2			
	6	Overhaul					Depot Lvl
9	Receiver Group						
	1	Inspect	M 0.1				
	2	Service	M 0.2				
	3	Repair			M 0.7		
	4	Overhaul					Depot Lvl
	TRIPOD MOUNT						
10	Traversing & Elevating Mechanism Group						
	1	Inspect	M 0.1				
	2	Service	M 0.1				
	3	Install	M 0.1				
	4	Repair			D 0.4		
	5	Overhaul					Depot Lvl
11	Pintle Assembly & Tripod Group						
	1	Inspect	M 0.1				
	2	Service	M 0.1				
	3	Install	M 0.1				
	4	Repair			D 0.4		
	5	Overhaul					Depot Lvl

CHAPTER 5

MISSION-ESSENTIAL MAINTENANCE OPERATIONS

5-1. GENERAL.

This chapter is the composite listing of all Mission-Essential Maintenance Operations (MEMO) designated in the CMAC (Chapter 4).

5-2. EXPLANATION.

The repair parts required to support the identified MEMO are shown here along with the basic data required to compute the MERPL quantity for listing in Chapter 6.

NOTE: The figure shown in the column headed, 'Frequency per 100 Operations,' is a percent of utilization.

TABLE 5-1 MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

OPERATOR/CREW

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	PROB	MAX	MHR REQUIREMENTS MIN	PROB	MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
01- 1	INSPECT			DAILY			.1	.1	.1		
01- 2	SERVICE			DAILY			.1	.1	.1		
01- 3	INSTALL			DAILY			.1	.1	.1		
01- 4	REPLACE			2100	3000	4200	.1	1.0	1.5		
01- 4		1005-00-608-5001	BARREL W/BIPOD							1	100
02- 1	INSPECT			DAILY			.1	.1	.1		
02- 2	SERVICE			DAILY			.1	.1	.1		
02- 3	INSTALL			DAILY			.1	.1	.1		
03- 1	INSPECT			DAILY			.1	.1	.1		
03- 2	SERVICE			DAILY			.1	.1	.1		
03- 3	INSTALL			DAILY			.1	.1	.1		
04- 1	INSPECT			DAILY			.1	.1	.1		
04- 2	SERVICE			DAILY			.1	.1	.1		
04- 3	INSTALL			DAILY			.1	.1	.1		
05- 1	INSPECT			DAILY			.1	.1	.1		
05- 2	SERVICE			DAILY			.1	.1	.2		
05- 3	INSTALL			DAILY			.1	.1	.1		
06- 1	INSPECT			DAILY			.1	.1	.1		
06- 2	SERVICE			DAILY			.1	.1	.1		
06- 3	INSTALL			DAILY			.1	.1	.1		

TABLE 5-1(CONT) MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

OPERATOR/CREW

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	PROB	MAX	MHR REQUIREMENTS MIN	PROB	MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
07- 1	INSPECT			DAILY			.1	.1	.1		
07- 2	SERVICE			DAILY			.1	.1	.1		
07- 3	INSTALL			DAILY			.1	.1	.1		
08- 1	INSPECT			DAILY			.1	.1	.1		
08- 2	SERVICE			DAILY			.1	.1	.1		
08- 3	INSTALL			DAILY			.1	.1	.1		
09- 1	INSPECT			DAILY			1.1	1.2	1.3		
09- 2	SERVICE			DAILY			.1	.1	.1		
10- 1	INSPECT			DAILY			.1	.1	.1		
10- 2	SERVICE			DAILY			.1	.1	.1		
10- 3	INSTALL			DAILY			.1	.1	.1		
11- 1	INSPECT			DAILY			.1	.1	.1		
11- 2	SERVICE			DAILY			.1	.1	.1		
11- 3	INSTALL			DAILY			.1	.1	.1		

TABLE 5-2 MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

ORGANIZATIONAL

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	FREQ OF OCCURRENCE PROB	FREQ OF OCCURRENCE MAX	MHR REQUIREMENTS MIN	MHR REQUIREMENTS PROB	MHR REQUIREMENTS MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
01- 5	REPAIR			0	0	0	.8	.8	1.5		
02- 4	REPAIR			1000	1300	2100	.2	.3	.3		
02- 4		1005-00-608-5180	PLUNGER							1	10
02- 4		1005-00-608-5182	SEAR							1	50
02- 4		1005-00-608-5185	TRIGGER ASSY							1	60
05- 4	REPAIR			1000	1300	2100	.1	.3	.5		
05- 4		1005-00-608-5089	GUIDE, FRONT							1	10
05- 4		1005-00-608-5090	GUIDE, REAR							1	10
05- 4		1005-00-608-5093	PAWL ASSY, COVER							1	100
05- 4		1005-00-608-5097	RETAINER							1	10
05- 4		5360-00-608-5098	SPRING, HELICAL,							1	25
05- 4		1005-00-608-5109	LATCH							1	5
05- 4		1005-00-608-5119	CLIP, SPRING							1	25
05- 4		5360-00-608-5125	SPRING							1	25
05- 4		1005-00-608-5299	PAWL							1	10
05- 4		3120-00-608-5300	ROLLER, CARTRIDGE							2	10
05- 4		5360-00-608-5302	SPRING							1	25
05- 4		1005-00-768-7084	SHAFT							1	10
05- 4		5360-00-870-2118	SPRING, HELICAL							1	25
06- 4	REPAIR			1000	1300	2100	.2	.3	.3		

TABLE 5-2(CONT) MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

ORGANIZATIONAL

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	FREQ OF OCCURRENCE PROB	FREQ OF OCCURRENCE MAX	MHR REQUIREMENTS MIN	MHR REQUIREMENTS PROB	MHR REQUIREMENTS MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
06- 4		1005-00-403-9508	TRAY							1	100
06- 4		1005-00-608-5089	GUIDE, FRONT							1	10
06- 4		1005-00-608-5090	GUIDE, REAR							1	10
06- 4		1005-00-608-5093	PAWL ASSY,							1	5
06- 4		1005-00-608-5097	RETAINER,							1	10
06- 4		5360-00-608-5098	SPRING, HELICAL,							1	25
06- 4		1005-00-608-5109	LATCH							1	5
06- 4		1005-00-608-5119	CLIP, SPRING							1	25
06- 4		5360-00-608-5125	SPRING							1	25
06- 4		1005-00-608-5299	PAWL							1	10
06- 4		5360-00-608-5302	SPRING							1	25
06- 4		5360-00-870-2118	SPRING, HELICAL,							1	25
07- 4	REPAIR			800	1000	1400	.2	.2	.3		
07- 4		1005-00-608-5172	GUIDE							1	100
07- 4		5360-00-608-5271	SPRING, HELICAL,							1	60
07- 4		1005-00-908-4141	BUFFER ASSY							1	25
07- 4		1005-00-912-3712	ROD							1	25
08- 4	REPLACE			2100	3000	4200	.1	.1	.1		
08- 4		1005-00-763-1863	BOLT ASSY,							1	100
08- 5	REPAIR			2100	3000	4200	.2	.2	.3		

TABLE 5-2(CONT) MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

ORGANIZATIONAL

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE			MHR REQUIREMENTS			QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
				MIN	PROB	MAX	MIN	PROB	MAX		
08- 5		1005-00-608-5037	ACTUATOR							1	40
08- 5		1005-00-608-5039	GUIDE							1	10
08- 5		1005-00-608-5057	PLUNGER							1	30
08- 5		5360-00-608-5059	SPRING, HELICAL,							1	40
08- 5		5360-00-608-5060	SPRING, HELICAL							1	30
08- 5		5360-00-608-5061	SPRING, HELICAL,							1	60
08- 5		1005-00-779-6030	EXTRACTOR							1	30
08- 5		5315-00-839-0901	PIN							1	40
08- 5		1005-00-872-4441	BOLT, BREECH BODY							1	30
08- 5		1005-00-872-4442	EJECTOR							1	40
08- 5		1005-00-872-4443	PIN							1	75
08- 5		5315-00-994-9648	PIN							1	100

TABLE 5-3 MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

DIRECT SUPPORT

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	FREQ OF OCCURRENCE PROB	FREQ OF OCCURRENCE MAX	MHR REQUIREMENTS MIN	MHR REQUIREMENTS PROB	MHR REQUIREMENTS MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
01- 1-A	INSPECT			2100	3000	4200	.1	.1	.1		
01- 1-B	INSPECT			400	600	800	.1	.1	.1		
01- 2-A	SERVICE			2100	3000	4200	.1	.1	.1		
01- 2-B	SERVICE			400	600	800	.1	.1	.1		
01- 3-A	INSTALL			2100	3000	3000	.7	1.0	1.5		
01- 3-B	INSTALL			100	400	600	.7	1.0	1.5		
01- 4-A	REPLACE			2100	3000	3000	.7	1.0	1.5		
01- 4-A		9505-00-293-4208	WIRE, STEEL							1	100
01- 4-A		5315-00-409-4069	PIN, STRAIGHT							1	2
01- 4-A		1005-00-608-5002	BARREL ASSY							1	100
01- 4-A		1005-00-608-5004	EXTENSION , GAS CYL							1	3
01- 4-A		5365-00-608-5005	NUT, GAS CYL							1	3
01- 4-A		1005-00-608-5008	SUPPRESSOR							1	2
01- 4-A		5310-00-608-5009	WASHER, KEY							1	3
01- 4-A		1005-00-875-4350	PISTON, GAS							1	10
01- 4-A		5365-00-987-9907	PLUG, GAS CYL							1	3
01- 4-B	REPLACE			100	400	600	.7	1.0	1.5		
01- 4-B		1005-00-020-8683	BIPOD ASSY							1	100
01- 4-B		5315-00-409-4069	PIN, STRAIGHT							1	100
01- 5-B	REPAIR			200	600	900	.3	.3	.6		

TABLE 5-3(CONT) MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

DIRECT SUPPORT

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	PROB	MAX	MHR REQUIREMENTS MIN	PROB	MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
01- 5-B		5315-00-196-2753	KEY							2	50
01- 5-B		5315-00-409-4069	PIN, STRAIGHT							1	100
01- 5-B		1005-00-608-5020	LEG ASSY, LH							1	25
01- 5-B		1005-00-608-5021	LEG ASSY, RH							1	25
01- 5-B		5305-00-608-5025	SCREW							2	50
01- 5-B		5320-00-608-5032	RIVET							4	50
03- 4	REPLACE			0	0	0	.2	.2	.2		
03- 5	REPAIR			0	0	0	.2	.2	.4		
04- 4	REPLACE			0	0	0	.1	.1	.1		
04- 5	REPAIR			0	0	0	.2	.2	.2		
09- 3	REPAIR			300	800	1200	.5	.7	.7		
09- 3		5360-00-066-6061	SPRING, HLCL, CPRSN							1	50
09- 3		1005-00-603-9285	GUIDE							1	25
09- 3		1005-00-608-5208	RETAINER							1	30
09- 3		5305-00-753-4113	SCREW							1	100
10- 4	REPAIR			500	800	1200	.1	.4	.7		
10- 4		5315-00-051-8636	PIN							1	10
10- 4		5360-00-473-5447	SPRING							1	75
10- 4		1005-00-513-9988	SCREW							1	75
10- 4		5305-00-513-9989	SCREW							1	10

TABLE 5-3(CONT) MISSION-ESSENTIAL MAINTENANCE OPERATIONS

MACHINE GUN, .62MM, LIGHT, FLEXIBLE, M60

DIRECT SUPPORT

CMAC LINE NUMBER	OPERATION	PART NSN	PART NOUN	FREQ OF OCCURRENCE MIN	FREQ OF OCCURRENCE PROB	FREQ OF OCCURRENCE MAX	MHR REQUIREMENTS MIN	MHR REQUIREMENTS PROB	MHR REQUIREMENTS MAX	QTY PER ACTION	FREQ PER 100 OPER (PER CENT)
10- 4		1005-00-518-9757	STOP							1	10
10- 4		1005-00-722-3850	LOVER							1	10
10- 4		5365-00-753-3929	RING RETAINING							2	100
10- 4		1005-00-772-0192	PLUNGER							1	10
10- 4		5360-00-772-0193	SPRING, HELICAL,							1	50
10- 4		5315-00-809-5417	PIN							1	50
10- 4		1005-00-840-8768	STOP							1	10
10- 4		5310-00-949-1971	WASHER, LOCK							1	5
11- 4	REPAIR			400	700	1000	.2	.4	.6		
11- 4		1005-00-513-9959	HATCH							1	10
11- 4		5360-00-513-9997	SPRING, HELICAL							1	75
11- 4		5315-00-514-0004	PIN							1	60
11- 4		1005-00-514-1080	CAM							1	10
11- 4		5360-00-514-2877	SPRING							1	75
11- 4		5320-00-915-8185	RIVIT							2	15
11- 4		1005-00-945-9768	LATCH							1	75
11- 4		5360-00-945-9954	SPRING, HELICAL,							1	100
11- 4		5315-00-947-7250	PIN GROOVED HEAD							1	60

CHAPTER 6

MISSION-ESSENTIAL REPAIR-PARTS LIST

6-1. GENERAL.

This chapter is a listing of the repair parts, and the quantities thereof, that are expected to be consumed in support of the MEMO for the end item during a contingency operation.

6-2. EXPLANATION.

a. The consumption quantities are broken down into quantities estimated to be required to support varying end item densities.

b. The unit of measure code is annotated in the remarks column if different from the repair part's unit of issue.

TABLE 6-1 MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
ORGANIZATIONAL LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
1005-00-403-9508	TRAY	EA	06- 4	65	260	650	1300	
1005-00-608-5037	ACTUATOR	EA	08- 5	60	240	600	1200	
1005-00-608-5039	GUIDE	EA	08- 5	15	60	150	300	
1005-00-608-5057	PLUNGER	EA	08- 5	45	180	450	900	
5360-00-608-5059	SPRING, HELICAL,	EA	08- 5	60	240	600	1200	
5360-00-608-5060	SPRING, HELICAL	EA	08- 5	45	180	450	900	
5360-00-608-5061	SPRING, HELICAL,	EA	08- 5	90	360	900	1800	
1005-00-608-5089	GUIDE, FRONT	EA	05- 4	7	26	65	130	
1005-00-608-5089	GUIDE, FRONT	EA	06- 4	7	26	65	130	
1005-00-608-5090	GUIDE, REAR	EA	05- 4	7	26	65	130	
1005-00-608-5090	GUIDE, REAR	EA	06- 4	7	26	65	130	
1005-00-608-5093	PAWL ASSY, COVER	EA	05- 4	65	260	650	1300	
1005-00-608-5093	PAWL ASSY,	EA	06- 4	3	13	33	65	
1005-00-608-5097	RETAINER	EA	05- 4	7	26	65	130	
1005-00-608-5097	RETAINER	EA	06- 4	7	26	65	130	
5360-00-608-5098	SPRING, HELICAL,	EA	05- 4	16	65	163	325	
5360-00-608-5098	SPRING, HELICAL,	EA	06- 4	16	65	163	325	
1005-00-608-5109	LATCH	EA	05- 4	3	13	33	65	
1005-00-608-5109	LATCH	EA	06- 4	3	13	33	65	
1005-00-608-5119	CLIP, SPRING	EA	05- 4	16	65	163	325	

TABLE 6-1 (CONT) MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
ORGANIZATIONAL LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
1005-00-608-5119	CLIP, SPRING	EA	06- 4	16	65	163	325	
5360-00-608-5125	SPRING	EA	05- 4	16	65	163	325	
5360-00-608-5125	SPRING	EA	06- 4	16	65	163	325	
1005-00-608-5172	GUIDE	EA	07- 4	50	200	500	1000	
1005-00-608-5180	PLUNGER	EA	02- 4	7	26	65	130	
1005-00-608-5182	SEAR	EA	02- 4	33	130	325	650	
1005-00-608-5185	TRIGGER ASSY	EA	02- 4	39	156	390	780	
5360-00-608-5271	SPRING, HELICAL,	EA	07- 4	30	120	300	600	
1005-00-608-5299	PAWL	EA	05- 4	7	26	65	130	
1005-00-608-5299	PAWL	EA	06- 4	7	26	65	130	
3120-00-608-5300	ROLLER, CARTRIDGE	EA	05- 4	13	52	130	260	
5360-00-608-5302	SPRING	EA	05- 4	16	65	163	325	
5360-00-608-5302	SPRING	EA	06- 4	16	65	163	325	
1005-00-763-1863	BOLT ASSY,	EA	08- 4	150	600	1500	3000	
1005-00-768-7084	SHAFT	EA	05- 4	7	26	65	130	
1005-00-779-6030	EXTRACTOR	EA	08- 5	45	180	450	900	
5315-00-839-0901	PIN	HD	08- 5	60	240	600	1200	
5360-00-870-2118	SPRING, HELICAL	EA	05- 4	16	65	163	325	
5360-00-870-2118	SPRING, HELICAL,	EA	06- 4	16	65	163	325	
1005-00-872-4441	BOLT, BREECH BODY	EA	08- 5	45	180	450	900	

TABLE 6-1 (CONT) MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
ORGANIZATIONAL LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
1005-00-872-4442	EJECTOR	EA	08- 5	60	240	600	1200	
1005-00-872-4443	PIN	EA	08- 5	113	450	1125	2250	
1005-00-908-4141	BUFFER ASSY	EA	07- 4	13	50	125	250	
1005-00-912-3712	ROD	EA	07- 4	13	50	125	250	
5315-00-994-9648	PIN	EA	08- 5	150	600	1500	3000	

TABLE 6-2 MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
DIRECT SUPPORT LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
1005-00-020-8683	BIPOD ASSY	EA	01- 4-B	20	80	200	400	
5315-00-051-8636	PIN	EA	10- 4	4	16	40	80	
5360-00-066-6061	SPRING, HLCL, CPRSN	EA	09- 3	20	80	200	400	
5315-00-196-2753	KEY	EA	01- 5-B	30	120	300	600	
9505-00-293-4208	WIRE, STEEL	LB	01- 4-A	150	600	1500	3000	
5315-00-409-4069	PIN, STRAIGHT	EA	01- 4-A	3	12	30	60	
5315-00-409-4069	PIN, STRAIGHT	EA	01- 4-B	20	80	200	400	
5315-00-409-4069	PIN, STRAIGHT	EA	01- 5-B	30	120	300	600	
5360-00-473-5447	SPRING	EA	10- 4	30	120	300	600	
1005-00-513-9959	HATCH	EA	11- 4	4	14	35	70	
1005-00-513-9988	SCREW	EA	10- 4	30	120	300	600	
5305-00-513-9989	SCREW	EA	10- 4	4	16	40	80	
5360-00-513-9997	SPRING, HELICAL	EA	11- 4	26	105	263	525	
5315-00-514-0004	PIN	EA	11- 4	21	84	210	420	
1005-00-514-1080	CAM	EA	11- 4	4	14	35	70	
5360-00-514-2877	SPRING	EA	11- 4	26	105	263	525	
1005-00-518-9757	STOP	EA	10- 4	4	16	40	80	
1005-00-603-9285	GUIDE	EA	09- 3	10	40	100	200	
1005-00-608-5002	BARREL ASSY	EA	01- 4-A	150	600	1500	3000	
1005-00-608-5004	EXTENSION , GAS CYL	EA	01- 4-A	5	18	45	90	

TABLE 6-2 (CONT) MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
DIRECT SUPPORT LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
5365-00-608-5005	NUT, GAS CYL	EA	01- 4-A	5	18	45	90	
1005-00-608-5008	SUPPRESSOR	EA	01- 4-A	3	12	30	60	
5310-00-608-5009	WASHER, KEY	EA	01- 4-A	5	18	45	90	
1005-00-608-5020	LEG ASSY, LH	EA	01- 5-B	8	30	75	150	
1005-00-608-5021	LEG ASSY, RH	EA	01- 5-B	8	30	75	150	
5305-00-608-5025	SCREW	EA	01- 5-B	30	120	300	600	
5320-00-608-5032	RIVET	PG	01- 5-B	60	240	600	1200	EA
1005-00-608-5208	RETAINER	EA	09- 3	12	48	120	240	
1005-00-722-3850	LOVER	EA	10- 4	4	16	40	80	
5365-00-753-3929	RING RETAINING	EA	10- 4	80	320	800	1600	
5305-00-753-4113	SCREW	EA	09- 3	40	160	400	800	
1005-00-772-0192	PLUNGER	EA	10- 4	4	16	40	80	
5360-00-772-0193	SPRING, HELICAL,	EA	10- 4	20	80	200	400	
5315-00-809-5417	PIN	EA	10- 4	20	80	200	400	
1005-00-840-8768	STOP	EA	10- 4	4	16	40	80	
1005-00-875-4350	PISTON, GAS	EA	01- 4-A	15	60	150	300	
5320-00-915-8185	RIVIT	EA	11- 4	11	42	105	210	
1005-00-945-9768	LATCH	EA	11- 4	26	105	263	525	
5360-00-945-9954	SPRING, HELICAL,	EA	11- 4	35	140	350	700	
5315-00-947-7250	PIN GROOVED HEAD	EA	11- 4	21	84	210	420	

TABLE 6-2 (CONT) MISSION-ESSENTIAL REPAIR-PARTS LIST
120 DAY CONSUMPTION QUANTITIES
MACHINE GUN, 7.62MM, AIRCRAFT, LIGHT, M60C
DIRECT SUPPORT LEVEL

PART NSN	PART NOUN	UNIT OF ISSUE	CMAC LINE NUMBER	END ITEM DENSITIES 1-5	6-20	21-50	51-100	REMARKS
5310-00-949-1971	WASHER, LOCK	HD	10- 4	2	8	20	40	
5365-00-987-9907	PLUG, GAS CYL	EA	01- 4-A	5	18	45	90	

31 OCTOBER 1977

By Order of the Secretary of the Army:

BERNARD W. ROGERS
General, United States Army
Chief of Staff

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